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AMSAT NEWS SERVICE SPECIAL BULLETIN
ANS-135

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

In this edition:

* Fox-1 News From Dayton
* AMSAT FieldOps Team Fox-1 Operating Guide is Available

SB SAT @ AMSAT $ANS-135.01
ANS-135 AMSAT News Service Special Bulletin

AMSAT News Service Bulletin 135.01
>From AMSAT HQ KENSINGTON, MD.
May 15, 2015
To All RADIO AMATEURS
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Fox-1 News From Dayton

During the Dayton Hamvention, AMSAT Vice President Operations, Drew Glasbrenner, KO4MA, and AMSAT Vice President - Engineering Jerry Buxton, N0JY, provided more information about the Fox-1 satellites under development. Buxton, N0JY, says Fox-1A has passed all environmental testing and is integrated into the P-POD deployment canister. "The 'remove before flight pin' has been pulled, the doors closed on the P-POD, and everything is aboard the shipping container now en route to Vandenberg Air Force Base in California for launch", said Buxton.

Previously Buxton had announced plans to incorporate an L band receiver in Fox-1C and Fox-1D. The addition will allow ground commanded selection of the U/v (normal Fox-1 bands) or the new L/v 1.2 GHz (23 cm) mode. Both bands will operate as FM single channel. (See: http://www.amsat.org/?p=4000)

During the satellite operations segment of the AMSAT Forum Glasbrenner provided the details of the uplink and downlink frequencies for the Fox-1 FM cubesat fleet.

Fox-1 Frequencies

	Uplink FM (67 Hz tone)	Downlink FM
Fox-1A	435.180 MHz	145.980 MHz

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RadFxSat/Fox-1B*   435.250 MHz                    145.960 MHz

Fox-1C*            435.300 MHz                    145.920 MHz
                  1267.300 MHz **                 145.920 MHz

Fox-1D*            435.350 MHz                    145.880 MHz
                  1267.350 MHz **                 145.880 MHz

* Pending IARU Coordination, If needed, changes will be announced
** U/v and L/v operations switchable by command station,
   not operational simultaneously
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According to Buxton, the team is planning to have an affordable L band uplink ground station available to amateurs by the time Fox-1C is on orbit.

+ Fox-1A will launch on a NASA ELaNa flight scheduled during the third quarter, 2015 from Vandenberg AFB. Fox-1A is a passenger aboard this launch driven by the schedule of the primary payload. When updates are available with firm dates they will be announced via the ANS bulletins and in the AMSAT Journal.

+ Fox-1B will fly with the Vanderbilt University radiation experiments expected in 2016.

+ Fox-1C will launch on Spaceflight's maiden mission of the SHERPA multi-cubesat deployer on a SpaceX Falcon 9 flight planned for late 2015.

+ Fox-1D is a flight spare for Fox-1C. If not needed as a spare it will fly with the University of Iowa HERCI radiation mapping experiment.

+ Fox-1E "Evolution" will carry a Mode J linear transponder. The transponder is planned to be 30 kHz wide and will also have a 1200 bps BPSK telemetry beacon. Launch opportunities are being developed, to be announced at a later date.

AMSAT has an immediate need to raise funds to cover both the launch contract and additional materials for construction and testing for Fox-1C. Please help us to continue to keep amateur radio in space. Donations may be made via the:

+ Paypal and credit card payment on the AMSAT website at http://www.amsat.org

+ Donation link in the AMSAT store: http://store.amsat.org/catalog/

+ Call the AMSAT office at (888) 322-6728

[ANS thanks the AMSAT Engineering and AMSAT Operations Teams for the above information]

AMSAT FieldOps Team Fox-1 Operating Guide is Available

AMSAT's Director of Field Operations, Patrick Stoddard, WD9EWK, invites you to view and download the "Fox-1 Operating Guide" which was released at the 2015 Dayton Hamvention. This color PDF file is designed to print double-sided. Two different resolution versions are available:

+ Low resolution PDF suitable for on-screen display (~400 KB size)

+ High resolution, press quality PDF for hard-copy printing (~2 MB size)

To access these files visit the AMSAT web and follow the path:

http://www.amsat.org --> Satellite Info --> Station and Operating Hints.

The direct link is http://www.amsat.org/?page_id=2144 where you'll find the
link to the Guide.

[ANS thanks the AMSAT FieldOps Team for the above information]

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